

FIG. 1a

	Q	V	Q	L	Q	Q	S	G	P	E	L	V	K	P	
KR127VH	CAG	GTC	CAG	CTG	CAG	CAG	TCT	GGA	CCT	GAA	CTG	GTG	AAG	CCT	42
DP7	CAG	GTG	CAG	CTG	<b>GTG</b>	CAG	TCT	GGG	<b>GCT</b>	GAG	<b>GTG</b>	<b>AAG</b>	AAG	CCT	
HZII	CAG	GTC	CAG	CTG	<b>GTG</b>	CAG	TCT	GGA	<b>GCT</b>	GAA	<b>GTG</b>	<b>AAG</b>	AAG	CCT	
HZI	CAG	GTC	CAG	CTG	<b>GTG</b>	CAG	TCT	GGA	<b>GCT</b>	GAA	<b>GTG</b>	GTG	AAG	CCT	
HZIII	CAG	GTC	CAG	CTG	<b>GTG</b>	CAG	TCT	GGA	<b>GCT</b>	GAA	<b>GTG</b>	<b>AAG</b>	AAG	CCT	42
HZII	-	-	-	-	<b>V</b>	-	-	-	<b>A</b>	-	<b>V</b>	<b>K</b>	-	-	
HZI	-	-	-	-	<b>V</b>	-	-	-	<b>A</b>	-	<b>V</b>	-	-	-	
HZIII	-	-	-	-	<b>V</b>	-	-	-	<b>A</b>	-	<b>V</b>	<b>K</b>	-	-	

	G	A	S	V	K	I	S	C	K	A	S	G	Y	A	
KR127VH	GGG	GCC	TCA	GTG	AAG	ATT	TCC	TGC	AAA	GCT	TCT	GGC	TAC	GCA	84
DP7	GGG	GCC	TCA	GTG	AAG	<b>GTT</b>	TCC	TGC	AAG	GCA	TCT	GGA	TAC	<b>ACC</b>	
HZII	GGG	GCC	TCA	GTG	AAG	<b>GTT</b>	TCC	TGC	AAA	GCT	TCT	GGC	TAC	<b>ACC</b>	
HZI	GGG	GCC	TCA	GTG	AAG	<b>GTT</b>	TCC	TGC	AAA	GCT	TCT	GGC	TAC	<b>GCA</b>	
HZIII	GGG	GCC	TCA	GTG	AAG	<b>GTT</b>	TCC	TGC	AAA	GCT	TCT	GGC	TAC	<b>ACC</b>	84
HZII	-	-	-	-	-	<b>V</b>	-	-	-	-	-	-	-	<b>T</b>	
HZI	-	-	-	-	-	<b>V</b>	-	-	-	-	-	-	-	-	
HZIII	-	-	-	-	-	<b>V</b>	-	-	-	-	-	-	-	<b>T</b>	

	F	S	S	S	W	M	N	W	V	K	Q	R	P	G	
KR127VH	TTC	AGT	<b>AGT</b>	<b>TCT</b>	TGG	ATG	<b>AAC</b>	TGG	GTG	AAG	CAG	AGG	CCT	GGA	126
DP7	TTC	<b>ACC</b>	AGC	<b>TAC</b>	TAT	ATG	CAC	TGG	GTG	<b>CGA</b>	CAG	<b>GCC</b>	CCT	GGA	
HZII	TTC	<b>ACC</b>	AGT	<b>TAC</b>	TGG	ATG	AAC	TGG	GTG	<b>CGA</b>	CAG	<b>GCC</b>	CCT	GGA	
HZI	TTC	<b>AGT</b>	AGT	TCT	TGG	ATG	AAC	TGG	GTG	<b>CGA</b>	CAG	<b>GCC</b>	CCT	GGA	
HZIII	TTC	<b>ACC</b>	AGT	TCT	TGG	ATG	AAC	TGG	GTG	<b>CGA</b>	CAG	<b>GCC</b>	CCT	GGA	
HZII	-	<b>T</b>	-	<b>Y</b>	-	-	-	-	-	<b>R</b>	-	<b>A</b>	-	-	
HZI	-	-	-	-	-	-	-	-	-	<b>R</b>	-	<b>A</b>	-	-	
HZIII	-	<b>T</b>	-	-	-	-	-	-	-	<b>R</b>	-	<b>A</b>	-	-	

	Q	G	L	E	W	I	G	R	I	Y	P	G	D	G	
KR127VH	CAG	GGT	CTT	GAG	TGG	ATT	GGA	<b>CGG</b>	ATT	TAT	CCT	GGA	GAT	GGA	168
DP7	CAA	GGG	CTT	GAG	TGG	ATG	GGA	ATA	ATC	AAC	CCT	AGT	GGT	GGT	
HZII	CAG	GGT	CTT	GAG	TGG	ATG	GGA	CGG	ATT	TAT	CCT	GGA	GAT	GGA	
HZI	CAG	GGT	CTT	GAG	TGG	ATT	GGA	CGG	ATT	TAT	CCT	GGA	GAT	GGA	
HZIII	CAG	GGT	CTT	GAG	TGG	ATG	GGA	CGG	ATT	TAT	CCT	GGA	GAT	GGA	
HZII	-	-	-	-	-	<b>M</b>	-	-	-	-	-	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HZIII	-	-	-	-	-	<b>M</b>	-	-	-	-	-	-	-	-	

	D	T	N	Y	N	G	K	F	K	G	K	A	T	L	
KR127VH	GAT	ACT	AAC	TAC	AAT	GGG	AAG	TTC	AAG	GGC	AAG	GCC	ACA	CTG	210
DP7	AGC	ACA	AGC	TAC	<b>GCA</b>	CAG	AAG	TTC	CAG	GGC	<b>AGA</b>	GTC	ACC	<b>ATG</b>	
HZII	GAT	ACT	AAC	TAC	<b>GCA</b>	CAG	AAG	TTC	CAG	GGC	<b>AGA</b>	GTC	ACA	<b>ATG</b>	
HZI	GAT	ACT	AAC	TAC	<b>GCA</b>	CAG	AAG	TTC	CAG	GGC	AAG	GCC	ACA	CTG	
HZIII	GAT	ACT	AAC	TAC	<b>GCA</b>	CAG	AAG	TTC	CAG	GGC	<b>AGA</b>	GTC	ACA	<b>ATG</b>	
HZII	-	-	-	-	<b>A</b>	<b>Q</b>	-	-	<b>Q</b>	-	<b>R</b>	<b>V</b>	-	<b>M</b>	
HZI	-	-	-	-	<b>A</b>	<b>Q</b>	-	-	<b>Q</b>	-	-	-	-	-	
HZIII	-	-	-	-	<b>A</b>	<b>Q</b>	-	-	<b>Q</b>	-	<b>R</b>	<b>V</b>	-	<b>M</b>	

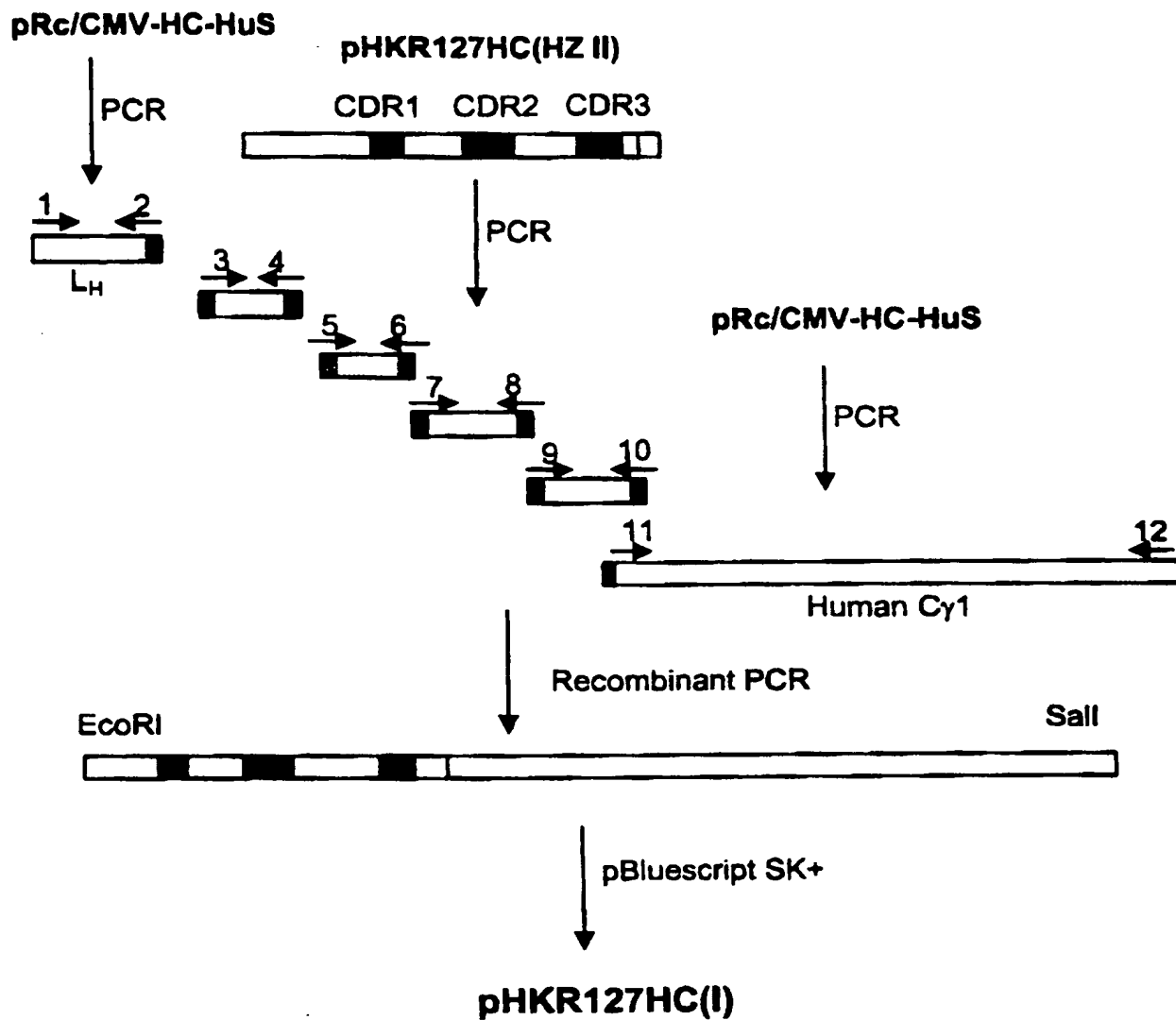
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FIG. 1b

	T	A	D	K	S	S	S	T	A	Y	M	Q	L	S	
KR127VH	ACT	GCA	GAC	AAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG	CAG	CTC	AGC	252
DP7	ACC	AGG	GAC	ACG	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTG	AGC	
HZII	ACT	GCA	GAC	ACG	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTC	AGC	
HZI	ACC	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GCC	TAC	ATG	GAG	CTG	AGC	
HZIII	ACT	GCA	GAC	AAA	TCC	ACG	AGC	ACA	GTC	TAC	ATG	GAG	CTC	AGC	
HZII	-	-	-	T	-	T	-	-	V	-	-	E	-	-	
HZI	-	-	-	-	-	T	-	-	-	-	-	E	-	-	
HZIII	-	-	-	-	-	T	-	-	V	-	-	E	-	-	
	S	L	T	S	V	D	S	A	V	Y	F	C	A	R	
KR127VH	AGC	CTG	ACC	TCT	GTG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA	294
DP7	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCC	GTG	TAT	TAC	TGT	GCG	AGA	
HZII	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TAC	TGT	GCA	AGA	
HZI	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TTC	TGT	GCA	AGA	
HZIII	AGC	CTG	AGA	TCT	GAG	GAC	ACG	GCG	GTC	TAT	TAC	TGT	GCA	AGA	
HZII	-	-	R	-	E	-	T	-	-	-	Y	-	-	-	
HZI	-	-	R	-	E	-	T	-	-	-	-	-	-	-	
HZIII	-	-	R	-	E	-	T	-	-	-	Y	-	-	-	
	E	Y	D	E	A	Y	W	G	Q	G	T	L	V	T	
KR127VH	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT	336
HZII	GAG	TAC	GAC	GAG	GAC	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT	
HZI	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT	
HZIII	GAG	TAC	GAC	GAG	GCT	TAC	TGG	GGC	CAA	GGG	ACT	CTG	GTC	ACT	
HZII	-	-	-	-	D	-	-	-	-	-	-	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HZIII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	V	S	A												
KR127VH	GTC	TCT	GCA												345
HZII	GTC	TCT	TCA												
HZI	GTC	TCT	TCA												
HZIII	GTC	TCT	TCA												
HZII	-	-	S												
HZI	-	-	S												
HZIII	-	-	S												

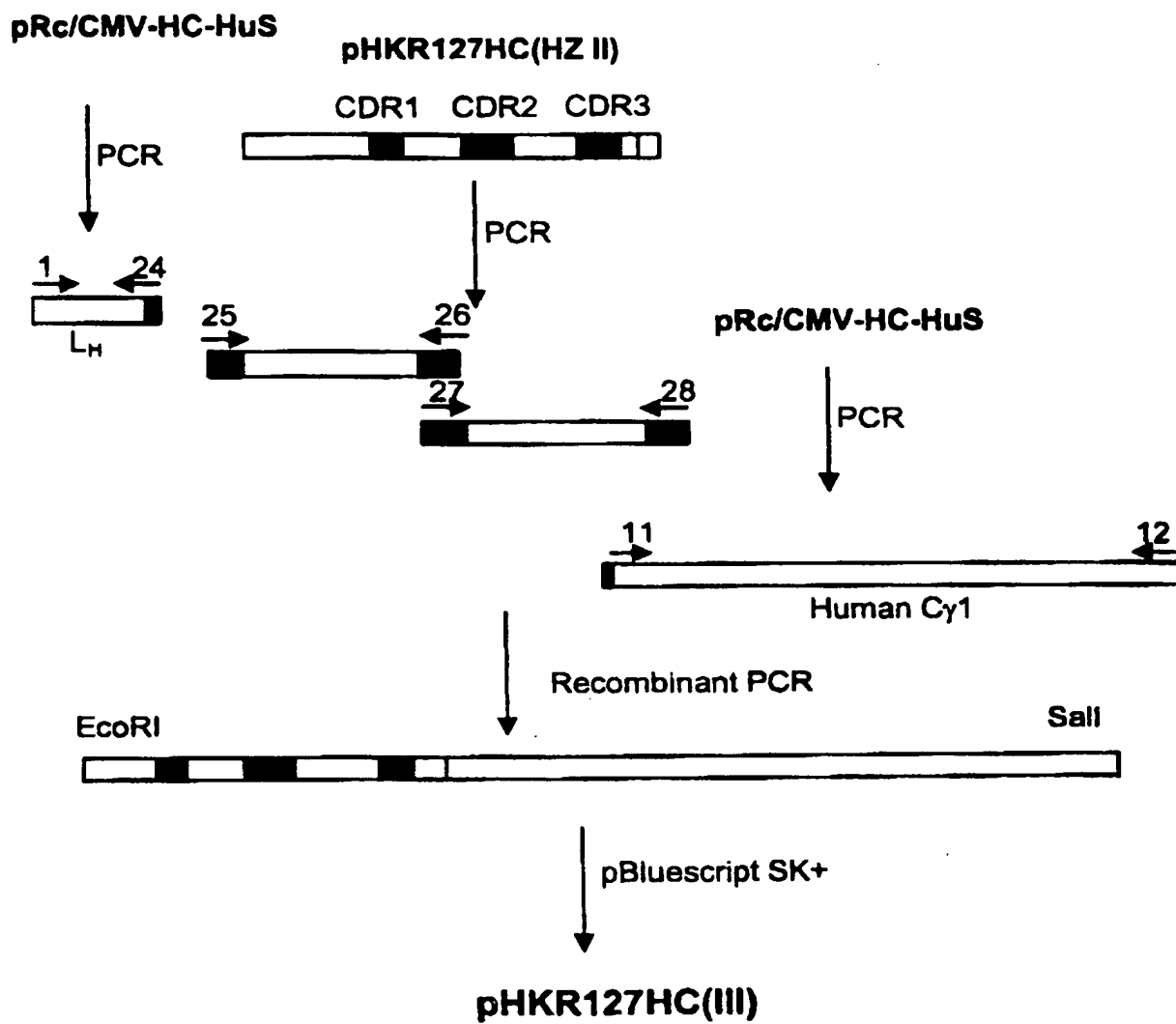
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FIG. 2a



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FIG. 2b



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FIG. 3a

	D	I	L	M	T	Q	T	P	L	I	L	S	V	T	
KR127VK	GAT	ATC	TTG	ATG	ACC	CAA	ACT	CCA	CTT	ATT	TTG	TCG	GTT	ACC	42
DPK12	GAT	ATT	GTG	ATG	ACC	CAG	ACT	CCA	CTC	TCT	CTG	TCC	GTC	ACC	
HZII	GAT	ATC	GTG	ATG	ACC	CAA	ACT	CCA	CTT	TCT	TTG	TCG	GTT	ACC	
HZII	-	-	V	-	-	-	-	-	-	S	-	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	S	-	-	-	-	
	I	G	Q	P	A	S	I	S	C	K	S	S	Q	S	
KR127VK	ATT	GGA	CAA	CCA	GCC	TCT	ATC	TCT	TGC	AAG	TCA	AGT	CAG	AGC	84
DPK12	CCT	GGA	CAG	CCG	GCC	TCC	ATC	TCC	TGC	AAG	TCT	AGT	CAG	AGC	
HZII	CCT	GGA	CAA	CCA	GCC	TCT	ATC	TCT	TGC	AAG	TCA	AGT	CAG	AGC	
HZII	P	-	-	-	-	-	-	-	-	-	-	-	-	-	
HZI	P	-	-	-	-	-	-	-	-	-	-	-	-	-	
	L	L	Y	S	N	G	K	T	Y	L	N	W	L	L	
KR127VK	CTC	TTA	TAT	AGT	AAT	GGA	AAA	ACC	TAT	TTG	AAT	TGG	TTA	TTA	126
DPK12	CTC	CTG	CAT	AGT	GAT	GGA	AAG	ACC	TAT	TTG	TAT	TGG	TAC	CTG	
HZII	CTC	TTA	TAT	AGT	AAT	GGA	AAA	ACC	TAT	TTG	AAT	TGG	TTA	TTA	
HZII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Q	R	P	G	Q	S	P	K	R	L	I	Y	L	V	
KR127VK	CAG	AGG	CCA	GGC	CAG	TCT	CCA	AAG	CGC	CTA	ATC	TAT	CTG	GTG	168
DPK12	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CTC	CTG	ATC	TAT	GAA	GTT	
HZII	CAG	AAG	CCA	GGC	CAG	CCT	CCA	CAG	CTC	CTA	ATC	TAT	CTG	GTG	
HZII	-	K	-	-	-	P	-	Q	L	-	-	-	-	-	
HZI	-	K	-	-	-	-	-	-	-	-	-	-	-	-	
	S	K	L	D	S	G	V	P	D	R	F	T	G	S	
KR127VK	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	ACT	GGC	AGT	210
DPK12	TCC	AAC	CGG	TTC	TCT	GGA	GTG	CCA	GAT	AGG	TTC	AGT	GGC	AGC	
HZII	TCT	AAA	CGG	TTC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT	
HZII	-	-	R	F	-	-	-	-	-	-	-	S	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	-	S	-	-	

FIG. 3b

	G	S	G	T	D	F	T	L	K	I	I	R	V	E	
KR127VK	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	ATC	AGA	GTG	GAG	252
DPK12	GGG	TCA	GGG	ACA	GAT	TTC	ACA	CTG	AAA	ATC	AGC	CGG	GTG	GAG	
HZII	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG	
HZII	-	-	-	-	-	-	-	-	-	-	<b>S</b>	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	<b>S</b>	-	-	-	

	A	E	D	L	G	V	Y	Y	C	V	Q	G	T	H	
KR127VK	GCT	GAG	GAT	TTG	GGA	GTT	TAT	TAC	TGC	<u>GTG</u>	<u>CAA</u>	<u>GGT</u>	<u>ACA</u>	<u>CAT</u>	294
DPK12	GCT	GAG	GAT	GTT	GGG	GTT	TAT	TAC	TGC	ATG	CAA	AGT	ATA	CAG	
HZII	GCT	GAG	GAT	<b>GTT</b>	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT	
HZII	-	-	-	<b>V</b>	-	-	-	-	-	-	-	-	-	-	
HZI	-	-	-	<b>V</b>	-	-	-	-	-	-	-	-	-	-	

	F	P	Q	T	F	G	G	G	T	K	L	E	I	K	
KR127VK	<u>TTT</u>	<u>CCT</u>	<u>CAG</u>	<u>ACG</u>	TTC	GGT	GGA	GGC	ACC	AAG	CTG	GAA	ATC	AAA	336
DPK12	CTT	CCT	CC												
HZII	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	<b>GTG</b>	GAA	ATC	AAA	
HZII	-	-	-	-	-	-	-	-	-	-	<b>V</b>	-	-	-	
HZI	-	-	-	-	-	-	-	-	-	-	<b>V</b>	-	-	-	

	R	
KR127VK	CGG	339

HZII	CGG
HZII	-
HZI	-

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FIG. 4

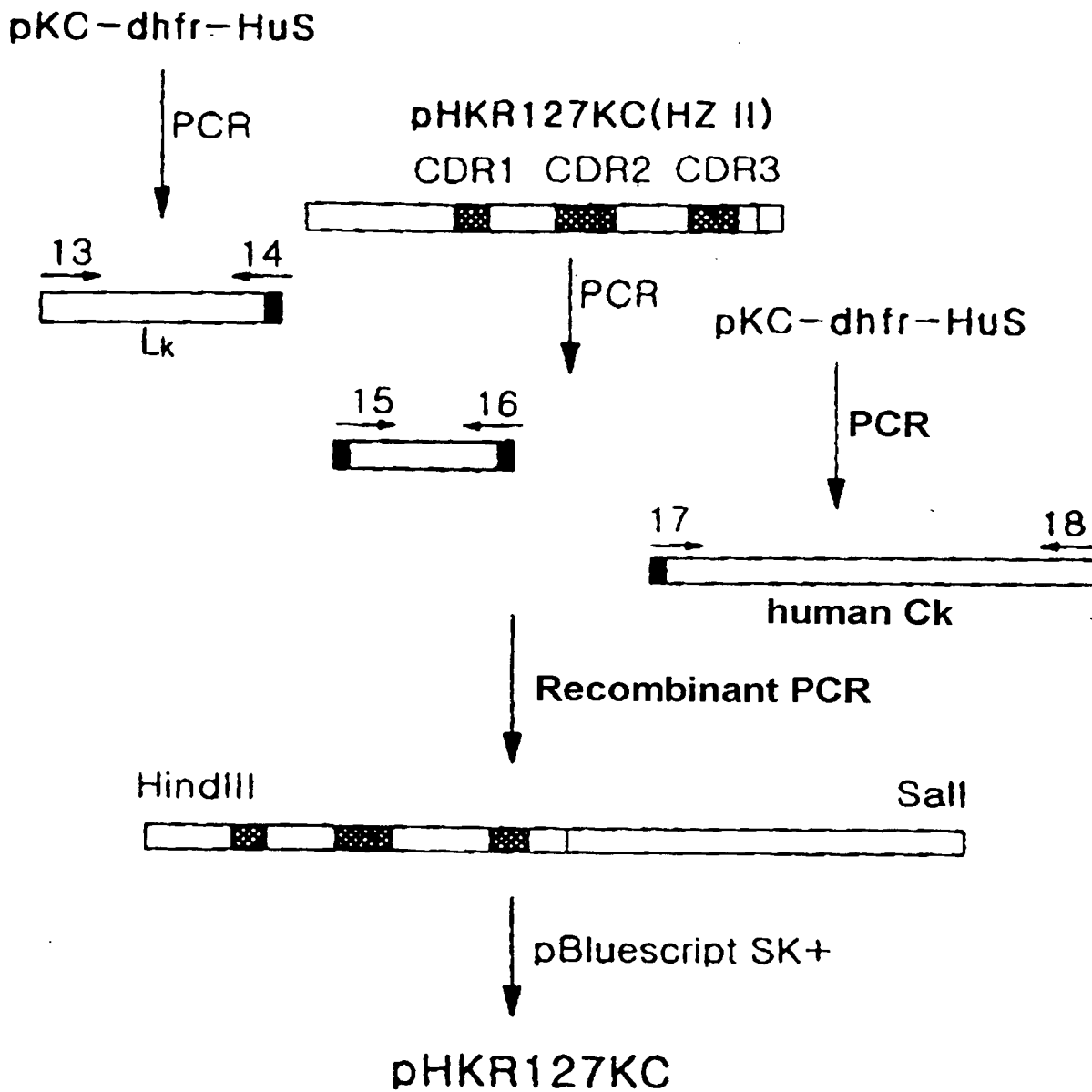


FIG. 5a

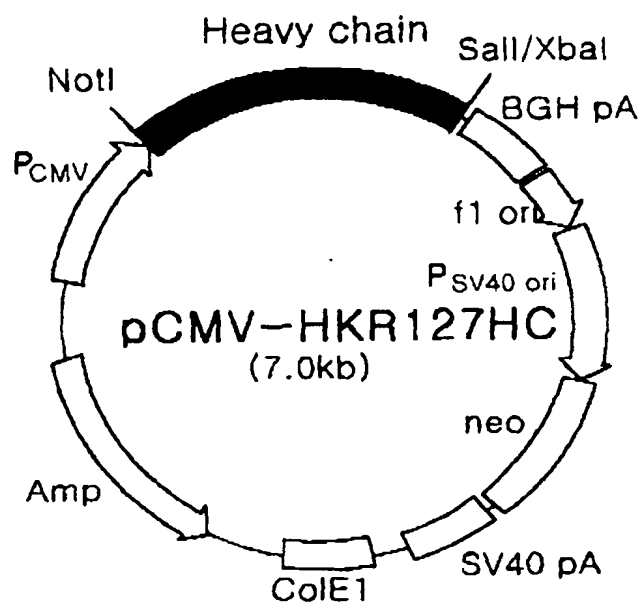
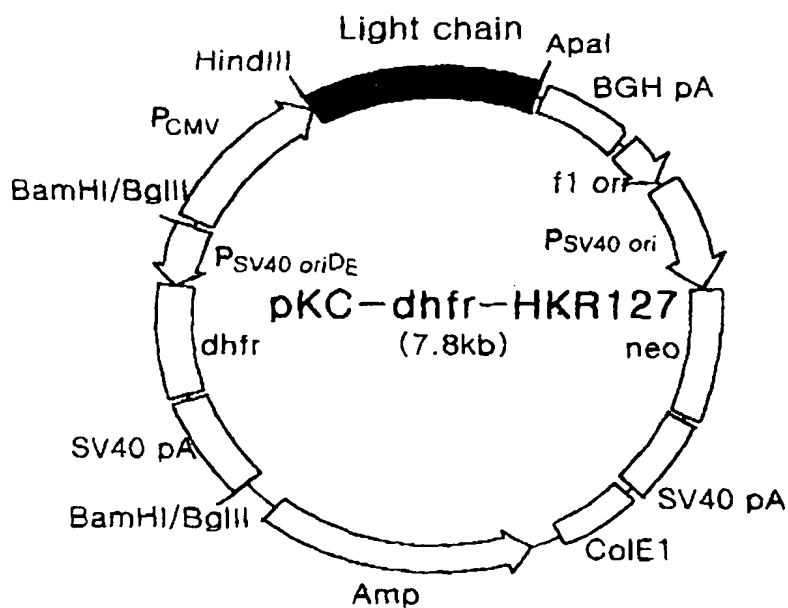


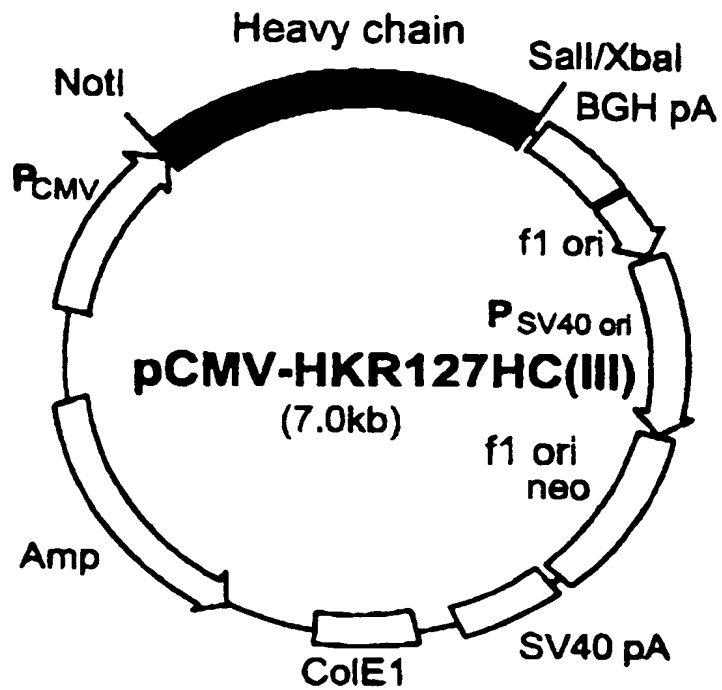
FIG. 5b





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FIG. 5c



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FIG. 6a

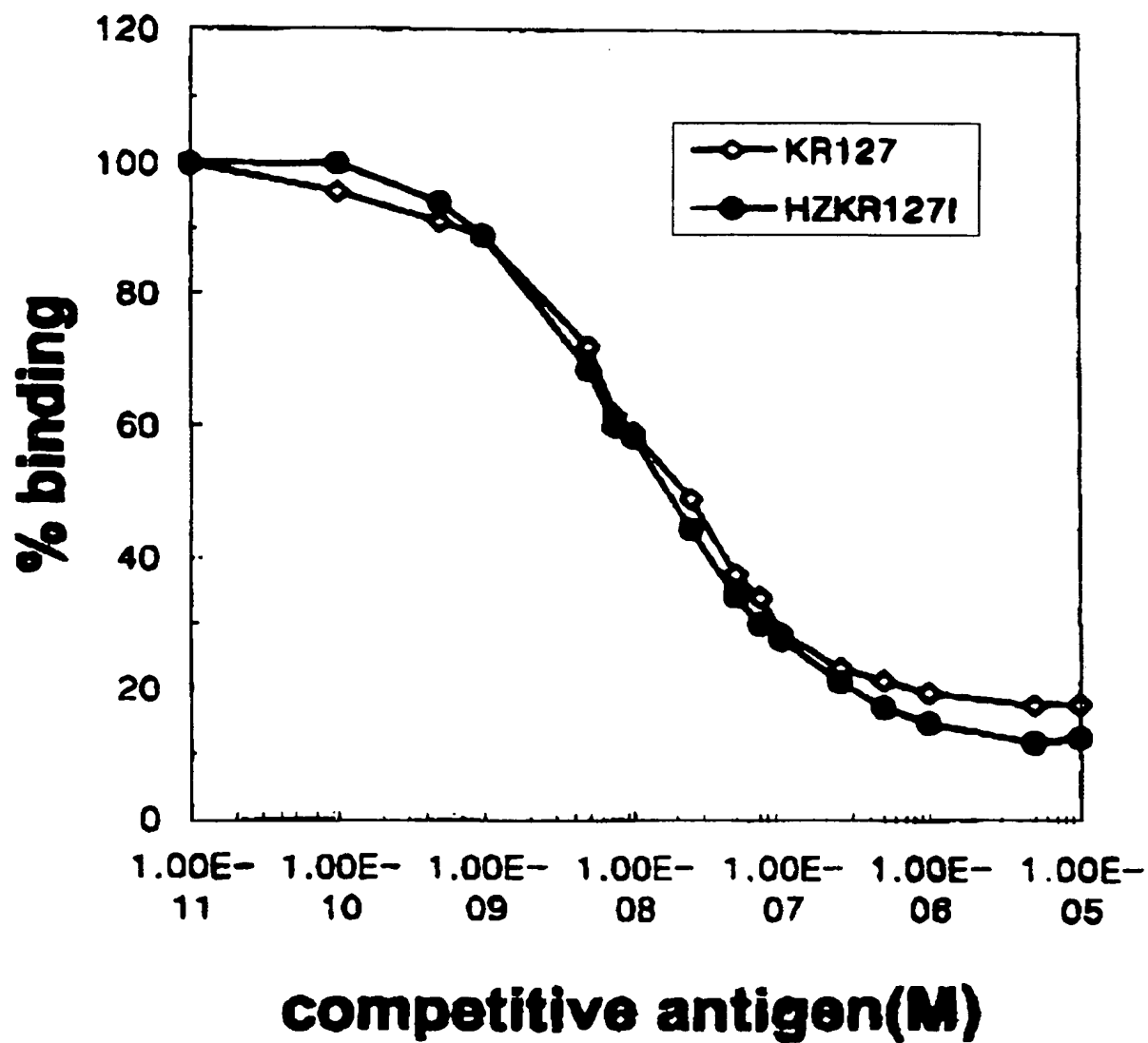


FIG. 6b

